

Transthyretin/TTR Protein, Mouse (HEK293, His)

Cat. No.:	HY-P73580
Synonyms:	Transthyretin; ATTR; Prealbumin; TBPA; TTR; PALB
Species:	Mouse
Source:	HEK293
Accession:	P07309 (G21-N147)
Gene ID:	22139
Molecular Weight:	Approximately 16.4 kDa

PROPERTIES

AA Sequence	<p>G P A G A G E S K C P L M V K V L D A V R G S P A V D V A V K V F K K T S E G S</p> <p>W E P F A S G K T A E S G E L H G L T T D E K F V E G V Y R V E L D T K S Y W K</p> <p>T L G I S P F H E F A D V V F T A N D S G H R H Y T I A A L L S P Y S Y S T T A</p> <p>V V S N P Q N</p>
Biological Activity	Measured by its binding ability in a functional ELISA. Immobilized recombinant human TTR-His at 10 µg/mL (100 µL/well) can bind recombinant Canine RBP4, the ED ₅₀ for this effect is 1.879 µg/mL.
Appearance	Lyophilized powder
Formulation	Lyophilized from a 0.2 µm filtered solution of 20 mM Tris-HCl, 0.5 M NaCl, 6% Trehalose, pH 8.0 or 20 mM PB, 150 mM NaCl, pH 7.4.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ O.
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	Transthyretin/TTR Protein, a thyroid hormone-binding protein, likely facilitates the transport of thyroxine from the bloodstream to the brain. Existing as a homotetramer, it forms a dimer of dimers, with subunits assembling around a central channel capable of accommodating two ligand molecules. This structural arrangement suggests a role in the binding and transport of thyroxine. Furthermore, Transthyretin/TTR Protein interacts with RBP4, indicating potential functional associations and interplay in the context of thyroid hormone regulation. The homotetrameric configuration and ligand-
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binding capabilities underscore the significance of Transthyretin/TTR in facilitating the transport and distribution of thyroid hormones within the body.

Caution: Product has not been fully validated for medical applications. For research use only.

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